**Model Development Phase Template**

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| Date | 12 JULY 2024 |
| Team ID | 740022 |
| Project Title | Lymphography Classification Using ML |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

In the forthcoming update, each feature will be accompanied by a brief description. . Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

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| --- | --- | --- | --- |
| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Class | Target variable indicating the classification | Yes | Essential for supervised learning |
| lymphatics | Lymphatic involvement | Yes | Potentially indicative of lymph node abnormalities |
| block of affere | Blockage of afferent lymph vessels | Yes | Relevant to identifying lymphatic system disruptions |
| bl. of lymph. c | Blockage of lymphatic channels | Yes | Critical for understanding lymph flow issues |

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| bl. of lymph. s | Blockage of lymphatic sinuses | Yes | Important for diagnosing internal lymphatic blockages |
| by pass | Presence of bypass in lymphatic system | Yes | Less directly related to classification; may introduce noise |
| extravasates | Extravasation in lymph nodes | Yes | Directly related to lymph node condition |
| regeneration of | Regeneration of lymphatic tissues | Yes | Indicative of recovery or progression of lymphatic issues |
| early uptake in | Early uptake in lymph nodes | Yes | Can indicate abnormal lymph node activity |
| lym.nodes dimin | Diminished lymph nodes | Yes | Key feature for identifying reduced lymphatic function |
| lym.nodes enlar | Enlarged lymph nodes | Yes | Common sign of abnormalities like infections or malignancies |
| changes in lym. | Changes in lymph nodes | Yes | General indicator of lymph node health |
| defect in node | Defects in lymph nodes | Yes | Directly related to lymph node abnormalities |
| changes in node | Changes in nodes | Yes | Relevant for tracking abnormal node conditions |
| changes in stru | Changes in node structure | Yes | Structural changes can indicate serious issues |
| special forms | Special formations in lymph nodes | No | Too vague; lacks specific relevance |
| dislocation of | Dislocation of lymph nodes | No | Rare occurrence; less likely to contribute significantly |
| exclusion of | Exclusion of certain nodes | No | Less impactful on overall classification accuracy |
| no. of nodes in | Number of nodes involved | Yes | Quantitative measure of lymph node involvement |

